		Reg. No. :				
		Question Pa	per Code: 49502]		
	В	.E./B.Tech. DEGREE	EXAMINATION, SE	 P 2020		
		E	lective			
		Electronics and Con	nmunication Engineer	ing		
	14UEI9	902-PRINCIPLES OF	DIGITAL IMAGE PF	ROCESSING		
		(Regu	lation 2014)			
)ur	ation: One hours			Maximum:	30 Marks	
		PART A - ($6 \ge 1 = 6 \text{ Marks}$			
		(Answer any six of	the following Questic	ons)		
1.	Images quantized the occurrence of	CO1- R				
	(a) Pixillation	(b) Blurring	(c) False Contours	(d) Samp	ling	
2.	In an image accentuating a specific range is called CO					
	(a) slicing	(b) color slicing	(c) cutting	(d)color e	enhancement	
3.	Identify the tool used in tasks such as zooming, shrinking, rotating, etc.					
	(a) Sampling		(b) Interpolation			
	(c) Filters		(d) Rasterisation			
4.	Aachieves smoothing comparable to the arithmetic mean CO2 filter, but it tends to lose less image detail in the process.					
	(a) Arithmetic mea	an filter	(b) geometric me	an filter		
	(c) spatial filter		(d) none of above			
5.	Restoration cannot	t be done using			CO3- R	
	(a) single projection		(b) double projection			
	(c) triple projection	n	(d) octa projectio	n		
6.	In wiener filtering it is assumed that noise and image are				CO3- R	
	(a) different	(b) homogeneous	(c) uncorrelated	(d) co	rrelated	

7.	One that is not a method of image segmentation is									
	(a) area	(b) line	(c) point	(d) edge						
8.	The threshold used for pixel in terms of the su	shold used for each pixel depends on the location of the CO4- R terms of the sub images, this type of thresholding is								
	(a) adaptive	(b) static	(c) modern	(d) one of ab	oove					
9.	Shannons theorem is a	llso called			CO5- R					
	(a) noiseless coding theorem		(b) noisy coding theorem							
	(c) coding theorem		(d) noiseless theorem							
10.	Encoder is used for				CO5- R					
	(a) image enhancement		(b) image decompression							
	(c) image compression	1	(d) image equalization							
	PART – B (3 x 8= 24 Marks)									
(Answer any three of the following Questions)										
11.	Illustrate the elements	of digital image proce	ssing systems.	CO1 -U	(8)					
12.	Define histogram and explain the histogram equalization of image CO2-U enhancement in detail with equations.				(8)					
13.	Illustrate constrained least square filtering for image restoration and CO3 -U derive its transfer function.									
14.	Examine region base example.	ed segmentation and	region growing with a	n CO4-U	(8)					
15.	Discuss about MPEG	standard and compare	with JPEG.	CO5- U	(8)					